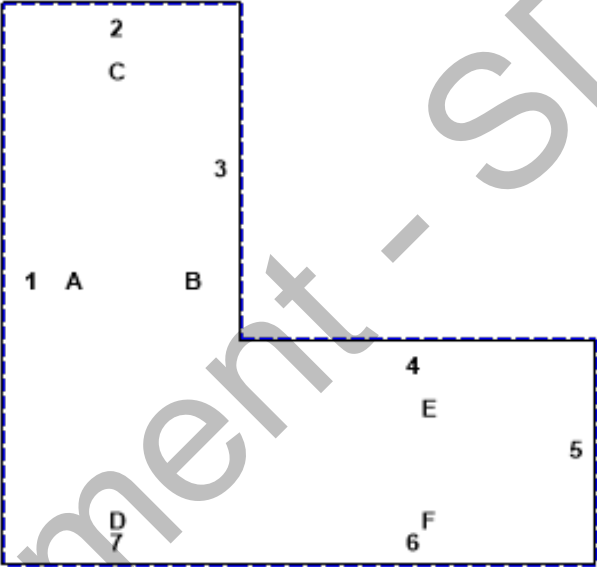


Project Number: 1234
Customer Name: JOHN DOE
Prepared By: SDG, INC.



Disclaimer/Copyright

These calculations are based on the ASCE 7-98, ASCE 7-02, ASCE 7-05, ASCE 7-10, and ASCE7-16 Standard Practices for determining the minimum wind loads, and intended performance goals, for buildings, other structures and their nonstructural components that are subject to building code requirements. While the information presented by this program is believed to be correct, SDG, Inc. neither intends for this program to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such a professional in interpreting and applying the results of the report provided by the WLS 2019 program.

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Signature / Stamp

Site Information

Wind Dir.	Exposure
1	C
2	C
3	C
4	C

Basic Wind Speed: 90.0 mph
Topography: None

Optional Factors

This project uses load combinations from ASCE 7.

Sample Document - SDG

Structure Information

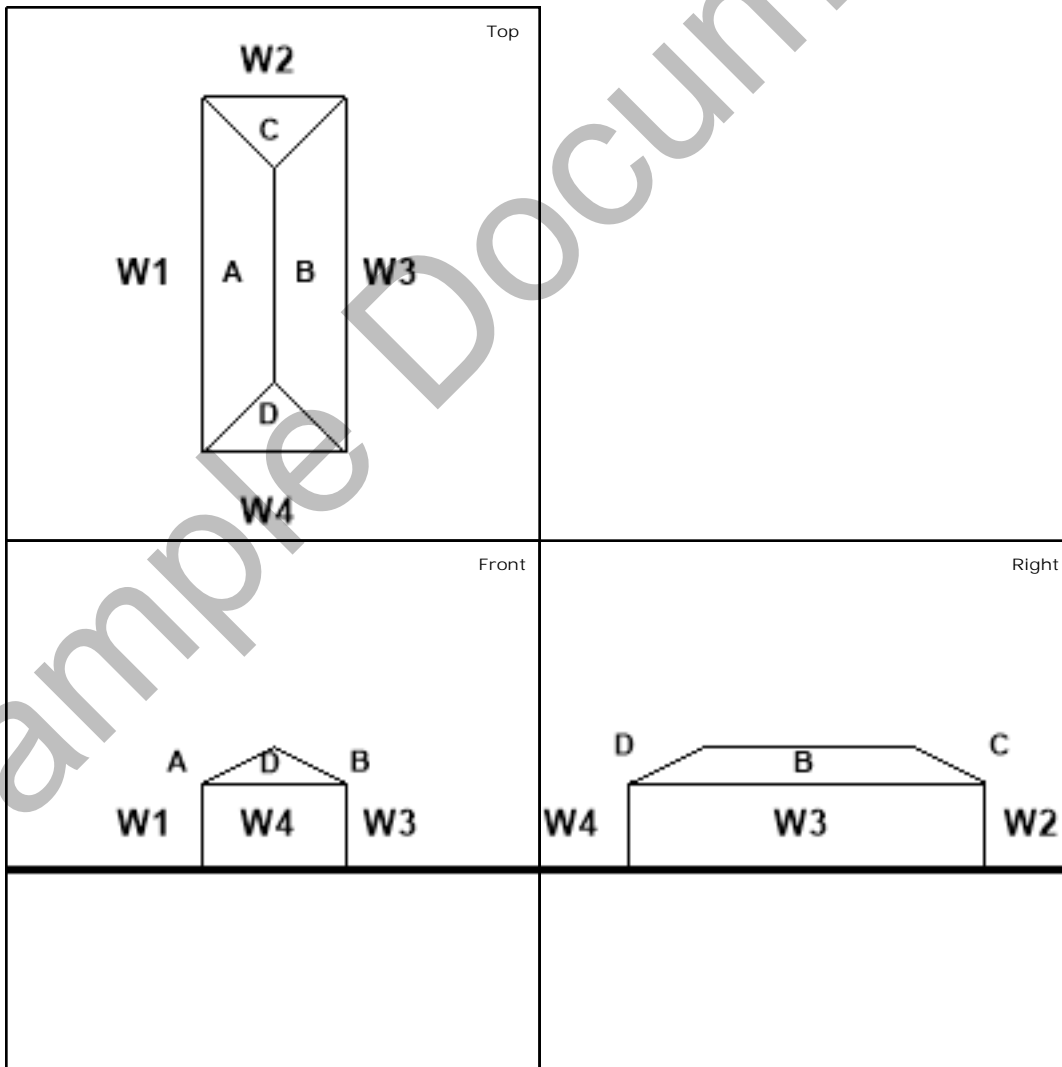
Structure Type: Building
 Structure Category: II
 Enclosure Classification: Enclosed

Main Section

Wall	Length (ft)	Overhang (ft)
1	50.0	0.00
2	20.0	0.00
3	50.0	0.00
4	20.0	0.00

Eave Height: 12.0 ft
 Parapet Height: 0.00 ft
 Parapet Enclosure: Solid
 Roof Shape: Hipped

Roof	Slope (X:12)
A & B	6.00
C & D	6.00



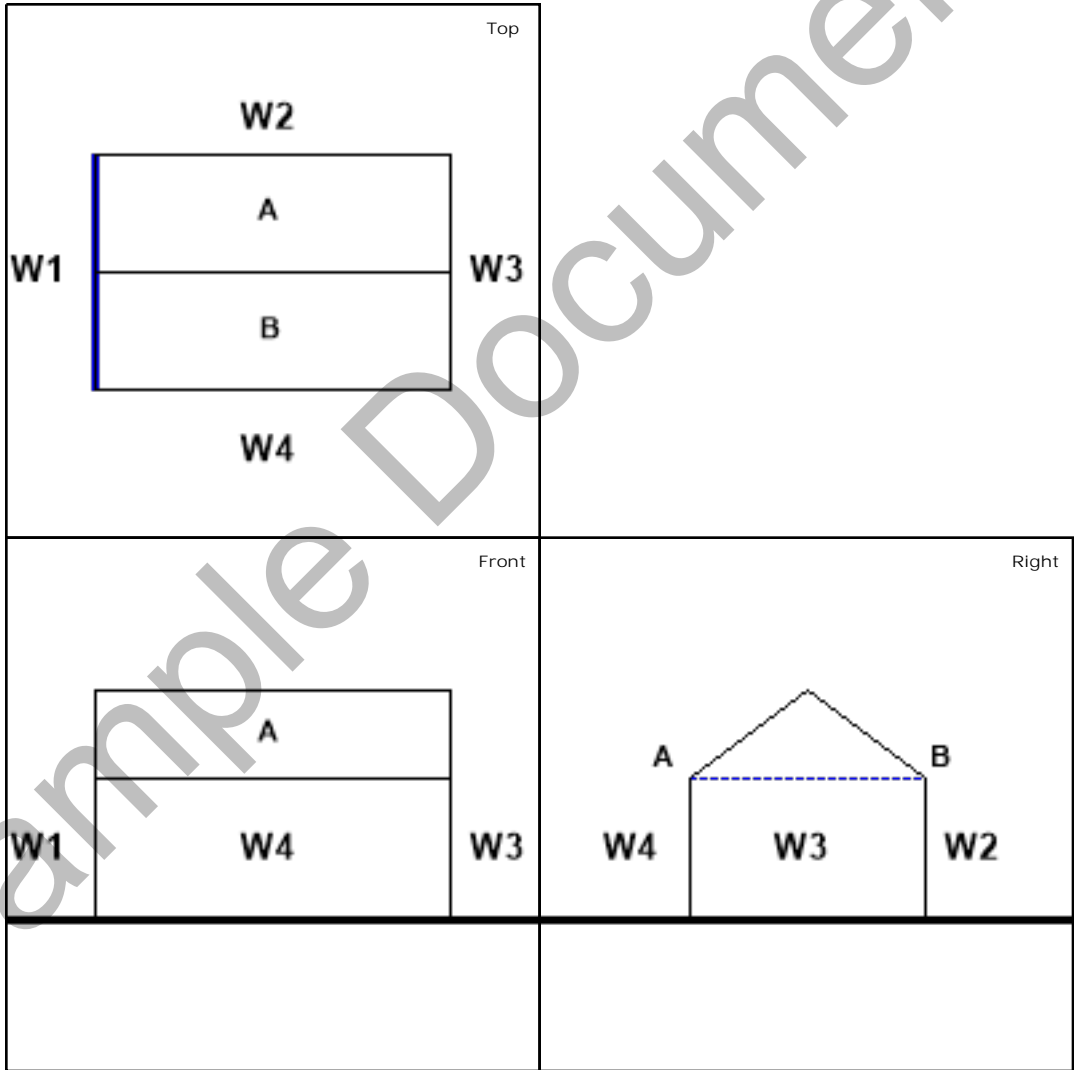
Section 1

Connected to: Main Section
 Connected to Wall: W3
 Position on W3: 0.00 ft

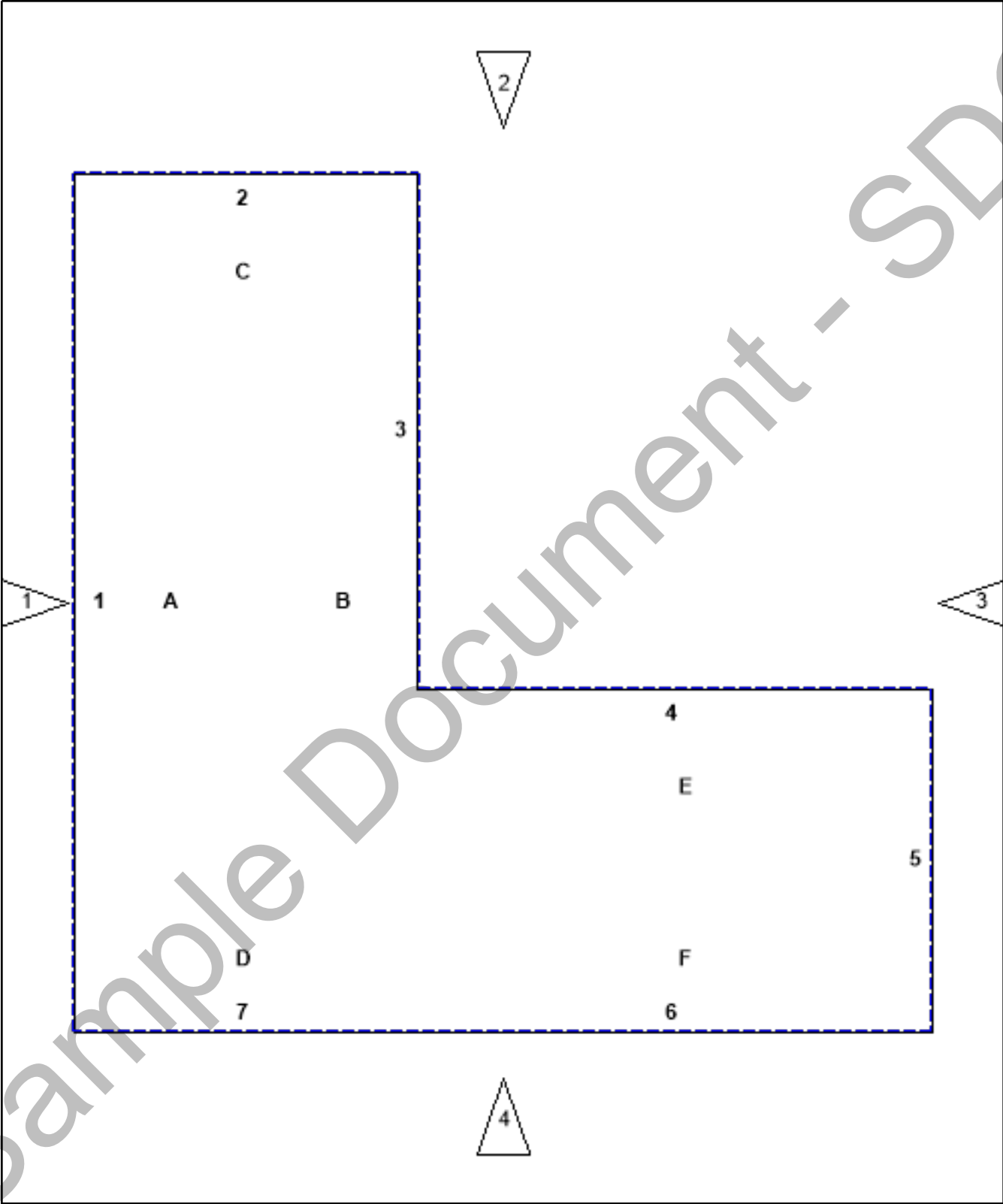
Wall	Length (ft)	Overhang (ft)
1	20.0	0.00
2	30.0	0.00
3	20.0	0.00
4	30.0	0.00

Eave Height: 12.0 ft
 Parapet Height: 0.00 ft
 Parapet Enclosure: Solid
 Roof Shape: Gabled

Roof	Slope (X: 12)
A & B	6.00



Composite Drawing



Components & Cladding

<u>Description</u>	<u>Wall/Roof</u>	<u>Surface</u>	<u>Zone</u>	<u>Span</u>	<u>Width</u>	<u>Area</u>
Window	Wall	3	4	5.00 ft	2.00 ft	10.00 ft ²

Sample Document - SDG

This data was calculated using the components and cladding method.

Component Description	Surface	Zone	z (ft)	q (psf)	GCp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
Window	3	4	14.5	15.0	1.00	0.180	15.0	12.3	17.6
			14.5	15.0	-1.10		-16.4	-19.1	-13.8

Sample Document - SDG

SAMPLE PROJECT

ASCE 7-10 Wind Load Report - Wind Direction 1

July 05, 2019

This data was calculated using the building of all heights method.

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Windward	12.0	15.0	0.881	0.800	0.180	10.5	7.85	13.2
2	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
3	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
4	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
5	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
6	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
7	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
A	Windward Roof	14.5	15.0	0.881	0.138	0.180	1.82	-0.872	4.51
		14.5	15.0		-0.345		-4.54	-7.23	-1.85
B	Leeward Roof	14.5	15.0	0.881	-0.600	0.180	-7.90	-10.6	-5.21
C&D	Roof	0.00 - 7.25*	15.0	0.881	-1.01	0.180	-13.3	-16.0	-10.6
		7.25 - 14.5*	15.0		-0.810		-10.7	-13.4	-7.98
		14.5 - 20.0*	15.0		-0.590		-7.77	-10.5	-5.08
		0.00 - 20.0*	15.0		-0.180		-2.37	-5.06	0.321
E&F	Roof	0.00 - 7.25*	15.0	0.881	-0.900	0.180	-11.9	-14.5	-9.16
		7.25 - 14.5*	15.0				-11.9	-14.5	-9.16
		14.5 - 29.0*	15.0		-0.500		-6.59	-9.28	-3.89
		29.0 - 30.0*	15.0		-0.300		-3.95	-6.64	-1.26
		0.00 - 30.0*	15.0		-0.180		-2.37	-5.06	0.321

This is load case 1 in ASCE 7-10 Figure 27.4-8. See Figure 27.4-8 for other cases.

* Distance from windward edge.

This data was calculated using the building of all heights method.

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
2	Windward	14.5	15.0	0.881	0.800	0.180	10.5	7.85	13.2
		15.0	15.0				10.5	7.85	13.2
		17.0	15.4				10.8	8.13	13.5
3	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
4	Windward	12.0	15.0	0.881	0.800	0.180	10.5	7.85	13.2
5	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
6	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
7	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
A&B	Roof	0.00 - 7.25*	15.0	0.881	-0.900	0.180	-11.9	-14.5	-9.16
		7.25 - 14.5*	15.0				-11.9	-14.5	-9.16
		14.5 - 29.0*	15.0		-0.500		-6.59	-9.28	-3.89
		29.0 - 50.0*	15.0		-0.300		-3.95	-6.64	-1.26
		0.00 - 50.0*	15.0		-0.180		-2.37	-5.06	0.321
C	Windward Roof	14.5	15.0	0.881	0.284	0.180	3.74	1.05	6.43
		14.5	15.0		-0.211		-2.78	-5.47	-0.088
D	Leeward Roof	14.5	15.0	0.881	-0.600	0.180	-7.90	-10.6	-5.21
E	Windward Roof	14.5	15.0	0.881	0.138	0.180	1.82	-0.872	4.51
		14.5	15.0		-0.345		-4.54	-7.23	-1.85
F	Leeward Roof	14.5	15.0	0.881	-0.600	0.180	-7.90	-10.6	-5.21

This is load case 1 in ASCE 7-10 Figure 27.4-8. See Figure 27.4-8 for other cases.
 * Distance from windward edge.

This data was calculated using the building of all heights method.

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
2	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
3	Windward	12.0	15.0	0.881	0.800	0.180	10.5	7.85	13.2
4	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
5	Windward	14.5	15.0	0.881	0.800	0.180	10.5	7.85	13.2
		15.0	15.0				10.5	7.85	13.2
		17.0	15.4				10.8	8.13	13.5
6	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
7	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
A	Leeward Roof	14.5	15.0	0.881	-0.600	0.180	-7.90	-10.6	-5.21
B	Windward Roof	14.5	15.0	0.881	0.138	0.180	1.82	-0.872	4.51
		14.5	15.0		-0.345		-4.54	-7.23	-1.85
C&D	Roof	0.00 - 7.25*	15.0	0.881	-1.01	0.180	-13.3	-16.0	-10.6
		7.25 - 14.5*	15.0		-0.810		-10.7	-13.4	-7.98
		14.5 - 20.0*	15.0		-0.590		-7.77	-10.5	-5.08
		0.00 - 20.0*	15.0		-0.180		-2.37	-5.06	0.321
E&F	Roof	0.00 - 7.25*	15.0	0.881	-0.900	0.180	-11.9	-14.5	-9.16
		7.25 - 14.5*	15.0				-11.9	-14.5	-9.16
		14.5 - 29.0*	15.0		-0.500		-6.59	-9.28	-3.89
		29.0 - 30.0*	15.0		-0.300		-3.95	-6.64	-1.26
		0.00 - 30.0*	15.0		-0.180		-2.37	-5.06	0.321

This is load case 1 in ASCE 7-10 Figure 27.4-8. See Figure 27.4-8 for other cases.

* Distance from windward edge.

This data was calculated using the building of all heights method.

#	Surface	z (ft)	q (psf)	G	Cp	GCpi	Ext Pres (psf)	Net w/ +GCpi (psf)	Net w/ -GCpi (psf)
1	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
2	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
3	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
4	Leeward	14.5	15.0	0.881	-0.500	0.180	-6.59	-9.28	-3.89
5	Side	14.5	15.0	0.881	-0.700	0.180	-9.22	-11.9	-6.53
6	Windward	12.0	15.0	0.881	0.800	0.180	10.5	7.85	13.2
7	Windward	14.5	15.0	0.881	0.800	0.180	10.5	7.85	13.2
		15.0	15.0				10.5	7.85	13.2
		17.0	15.4				10.8	8.13	13.5
A	Leeward Roof	14.5	15.0	0.881	-0.600	0.180	-7.90	-10.6	-5.21
B	Windward Roof	14.5	15.0	0.881	0.284	0.180	3.74	1.05	6.43
		14.5	15.0		-0.211		-2.78	-5.47	-0.088
C&D	Roof	0.00 - 7.25*	15.0	0.881	-0.900	0.180	-11.9	-14.5	-9.16
		7.25 - 14.5*	15.0				-11.9	-14.5	-9.16
		14.5 - 29.0*	15.0		-0.500		-6.59	-9.28	-3.89
		29.0 - 50.0*	15.0		-0.300		-3.95	-6.64	-1.26
		0.00 - 50.0*	15.0		-0.180		-2.37	-5.06	0.321
E	Leeward Roof	14.5	15.0	0.881	-0.600	0.180	-7.90	-10.6	-5.21
F	Windward Roof	14.5	15.0	0.881	0.138	0.180	1.82	-0.872	4.51
		14.5	15.0		-0.345		-4.54	-7.23	-1.85

This is load case 1 in ASCE 7-10 Figure 27.4-8. See Figure 27.4-8 for other cases.
 * Distance from windward edge.